

## **Abstract**

### **Floating-Caliper Disk Brake, Especially for High Braking Power**

The present invention pertains to a floating caliper disk brake for motor vehicles capable in particular of developing high braking power. To realize a floating-caliper disk brake of high rigidity and heat resistance together with light weight at the same time, the brake comprises a frame-like floating caliper (1, 41), which projects over a brake disk (2) and the brake pads (3, 4) on both sides of the brake disk (2), the caliper being supported with freedom of movement by means of pin guides (14, 57) on a component (15) permanently attached to the vehicle. The frame-like floating caliper (1, 41) is formed by an inner caliper section (5, 45), which has at least one actuating device (12, 52), and by one outer caliper section (6, 46), which is connected to the inner caliper section (5, 45) by means of at least two bridge sections (7, 47), which project over the brake disk (2). The caliper sections (5,6; 45, 46) have a lattice-like, light-weight structure of high rigidity.

(Fig. 1)